Notice of Allowability	Application No.	Applicant(s)	
	10/700,004	KAMM ET AL.	
	Examiner	Art Unit	
	Kevin L McHenry	1725	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RE of the Office or upon petition by the applicant. See 37 CFR 1.313	ars on the cover sheet was (OR REMAINS) CLOSED is or other appropriate comm GHTS. This application is	ith the correspondence addr n this application. If not includ- unication will be mailed in due	ed course. THIS
1. This communication is responsive to preliminary amendme	nt of 8 March 2004.		
2. The allowed claim(s) is/are <u>28-36</u> .			
3. \boxtimes The drawings filed on <u>03 November 2003</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftsperson 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the caps attached Examiner's comment regarding REQUIREMENT Foreign 1. 	been received. been received in Application to the suments have been received of this communication to file ENT of this application. Itted. Note the attached EX is reason(s) why the oath of the submitted. It be submitted. On's Patent Drawing Review. Amendment / Comment of the header according to 37 CF sit of BIOLOGICAL MATERIAL.	on No d in this national stage applicate a reply complying with the reconstruction of the drawings in the front (not the FR 1.121(d). ERIAL must be submitted.	quirements OTICE OF
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 11/3/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No./ 3), 7. ☐ Examiner's	formal Patent Application (PTC ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allo 	ŕ

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Allowable Subject Matter

1. Claims 28-36 are allowed.

2. The following is an examiner's statement of reasons for allowance: the instant application is deemed to be a nonobvious improvement over the invention of WO 99/00203. The improvements comprise a shot sleeve with a vertical axis and a shot piston that together define a shot chamber above the shot piston that has a horizontal width substantially greater than its vertical depth, wherein a solid metal is melted, the molten metal is treated with a grain refiner, the molten metal is transferred into the shot chamber, the molten metal is cooled within the shot chamber to within a predetermined temperature range without stirring to form a semi-solid slurry, the piston is moved upwardly to inject a central portion of the slurry into a die cavity through a gate opening within a central portion of the shot chamber, and then the slurry is allowed to solidify within the die cavity to form the metal part.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hong et al. (U.S. 2004/0055726) is cited of interest for illustrating the state of the art in semisolid casting.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin L McHenry whose telephone number is (571) 272-1181. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin McHenry

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